Health manpower in hospitals

LABORATORY TECHNOLOGISTS

1961-68

BIBLIOTHÈQUE



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LABORATORY TECHNOLOGISTS

1961 - 68

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PREFACE

A series of occasional reports under the general title of *Health Manpower in Hospitals* have been produced by the Institutions Section, Health and Welfare Division, DBS. These reports form part of the over-all Institutions Section series of surveys and reports on Health and Welfare Manpower including the Annual Salary Surveys series relating to Hospital Nursing Personnel and Public Health Nurses.

These reports which are based upon published and unpublished tabulations of the Institutions Section and upon other DBS data are designed to provide an in-depth study on many of the various professional and technical categories of personnel in Canadian hospitals. The data are drawn from the detailed information collected on the Annual Returns of Hospitals (HS-1 and HS-2) from 1961 onwards and reflect such items as changes in employment patterns, workloads, turnover rates, etc., for each province and Canada.

Contained in these reports are brief textual highlights and tables of historical comparisons, as well as definitions of terms (where required). The volume of data presented varies according to the availability of detail on each professional or technical group. The reports will be up-dated periodically.

In addition to a general publication, i.e., *Health Manpower in Hospitals – General*, 1961-68 (Catalogue No. 83-507), which gives the reader a general background of trends in hospital manpower, there are a number of publications dealing with a particular group of hospital personnel (see back cover of this report).

WALTER E. DUFFETT, Dominion Statistician.

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SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- -- amount too small to be expressed.
- P preliminary figures.
- r revised figures.

EXPLANATORY NOTES AND GLOSSARY

Hospital

An institution which is operated for the medical, surgical and/or obstetrical care of in-patients, and which is licenced or approved as a hospital by the federal and/or a provincial government, or by a municipality duly authorized under the laws of the province. Specifically excluded are institutions primarily for tuberculosis, mental disease, and mental defect.

Private Hospital

Recognized by the province as a "private hospital" which generally restricts its admissions to patients paying for the care provided at rates determined by the management.

Public Hospital

Recognized by the province as a "public hospital" which is not operated for profit and accepts all patients regardless of ability to pay.

Federal Hospital

A hospital owned and operated by the Government of Canada; operation will either be by the Department of National Health and Welfare, the Department of National Defence, or the Department of Veterans Affairs.

General Hospital

A hospital which provides for the treatment and care of all types of diseases or at least a wide range of conditions.

Allied Special Hospital

Includes chronic, convalescent, rehabilitation and "other" hospitals.

Rated Bed Capacity

The number of beds that the hospital is designed to accommodate as at December 31 of the reporting year, on the basis of established standards of floor area per bed.

Size of Hospital

The size of a hospital in this report is determined by the rated bed capacity on December 31 of the reporting year.

Full-time Staff

Persons employed on a full-time basis at December 31, i.e., regularly employed throughout the full hospital workweek.

Part-time Staff

Persons employed on a part-time basis at December 31, i.e., regularly employed on selected days or partial days in the hospital workweek.

Staff Separation

The departure of an employee from employment within the hospital.

Paid Hours

Accumulated during the year, paid hours include full-time and part-time regular employees of the hospital who have had salaries and wages payable to them by the hospital.

Revenue Fund

The Revenue Fund is set up to record monetary activities associated with the day-to-day operations of the hospital in providing services to patients. It is sometimes called the Operating Fund.

Revenue Fund Expense.—Revenue Fund Expense is the cost, on an accrual basis, of operating and maintaining the hospital during the year, regardless of the amounts of disbursements made during the year.

Salaries and Wages.—Included are the gross salaries and wages earned during the year by all hospital personnel whether or not actually paid during the year. Gross salaries and wages comprise the following:

- (1) Salaries, wages and other remuneration earned by paid personnel, including special allowances paid and perquisites supplied to such personnel; includes also any earned fees or other remuneration perquisites, and special allowances to physicians or therapists for services rendered to the hospital.
- (2) The value of contributed services of regular staff members working without pay, and of perquisites supplied to such personnel, calculated on the basis of salary scales of similar services in the community and supported by regular payroll records.

In-patients

Patients who are duly admitted to the hospital and to whom a bed or bassinet has been allocated. (This category excludes stillbirths as well as patients attending a day or night centre attached to the hospital).

Adults and children. - All in-patients except newborn.

Admission. — The formal acceptance and reception of a person as an in-patient (including newborn).

Patient-day.—The period of service to an inpatient between the census-taking hours on two successive days; the day of admission is counted as a patient-day but the day of separation is not.

Population

June 1 population figures as enumerated in Consus years or estimated for inter-censal years.

Laboratory Technologist

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Personnel registered with the Canadian Society of Laboratory Technologists as qualified laboratory technologists.

Combined Laboratory and Radiological Technician

Personnel who successfully completed a provincially-approved course for combined laboratory and radiological technicians.

Radiology

Examination.—The procedure involving one completed film or series of films, or one or more exposures for fluoroscopy, directed at one anatomical site or region of the body during one attendance of the patient at the X-ray department.

This report, which is one of the series of statistical reports on Health Manpower in Canada, relates to qualified laboratory technologists employed in reporting general and allied special hospitals¹ excluding mental and tuberculosis in Canada for the years 1961-68 inclusive. In addition to this report, and others which deal with specific professional and technical groups, a general publication, Health Manpower in Hospitals-General, 1961-68, Catalogue No. 83-507, which enables the reader to observe trends in total manpower of Canadian hospitals (excluding mental and tuberculosis) is available.

Data included in this publication pertain to general and allied special hospitals and are arranged into the following areas: absolute counts of personnel, separations and paid hours, turnover rates and various ratios relating laboratory productivity, personnel and costs to over-all hospital activity. The data have been organized historically to bring out trends.

Hospitals reporting data for qualified laboratory technologists, generally, have been increasing in number. In 1961, the number of reporting hospitals was 426 (34.6 per cent of all operating general and allied special hospitals), while in 1968 the absolute number reporting was 626 (49.3 per cent) (Table 1). From 1961 to 1968, most of the operating public general hospitals with 100 beds or more reported information relating to qualified laboratory technologists. In the case of public general hospitals under 100 beds in size, the number reporting decreased in direct relationship to the size of the hospital. Provincially, Quebec and Ontario together have accounted for most of the hospitals reporting data on qualified laboratory technologists, averaging over fifty-five per cent during the period 1961-68. The proportion of reporting to operating hospitals in Quebec and Ontario combined has climbed from 42.6 per cent in 1961 to 61.2 per cent in 1968.

HIGHLIGHTS

Qualified Laboratory Technologists

The total number of qualified laboratory technologists² in reporting general and allied special hospitals in Canada has increased 124.8 per cent from 2,594 in 1961 to 5,832 in 1968. The number of technologists per 100,000 population has climbed from 14.2 in 1961 to 28.1 in 1968 (Table 3). Most frequently during this period, Saskatchewan maintained the highest rate per 100,000 population.

Over nine tenths of the total number of technologists reported in general and allied special hospitals during the years 1961-68 were employed on a full-time basis. Public general hospitals with 500-999 beds, for most of the years covered, reported more full-time technologists than any other size-group of hospitals. At the provincial level, Quebec and Ontario combined accounted for about two thirds of reported full-time technologists over the period 1961-68.

From 1961 to 1968 the rate of full-time technologists to full-time hospital staff in Canadian general and allied special hospitals has increased from 1.31 per cent to 2.03 per cent, an increase of 55.0 per cent (Table 2). Provincially, the highest rate of full-time technologists to full-time hospital personnel has been maintained by British Columbia, ranging from 2.01 per cent in 1962 to 2.71 per cent in 1968, while at the other extreme New Brunswick had the lowest rate, varying from 0.35 per cent in 1963 to 0.62 per cent in 1967.

Turnover rates of full-time technologists in Canadian general and allied special hospitals ranged from 54.9 per cent in 1962 to 32.0 per cent in 1968 (Table 4). Since the counts of separations for the year 1962 include some unqualified laboratory technologists, the turnover rates for 1962 are inflated; separations, and consequently turnover rates, for the remaining years relate to qualified technologists only. Thus, for the years 1963-68 the values of the turnover rates have shown less variance, being highest in 1964 (38.0 per cent) and lowest in 1968 (32.0 per cent). A comparison at the provincial level showed that Prince Edward Island (for the years 1962, 1963 and 1967), Newfoundland (1964-66) and New Brunswick (1968) had the lowest rates of turnover, while the highest rates were found in Alberta most frequently (1963, 1964, 1966 and 1967) followed by Newfoundland (1962), Prince Edward Island (1965) and Nova Scotia (1968).

Paid hours reported for technologists employed in general and allied special hospitals in Canada have increased by 70.4 per cent from 6,371,846 in 1963 to 10,856,350 in 1968. In the laboratory department as a whole, paid hours per 100 patient-days climbed from 44.0 in 1961 to 68.6 in 1968, an increase of 55.9 per cent (Table 10). For total hospital personnel the ratio of paid hours per patient-day has advanced 17.2 per cent from 11.6 in 1961 to 13.6 in 1968 (Table 9). The ratio of paid hours in the laboratory department per 100 laboratory units done in general and allied special hospitals has shown a decrease of 17.3 per cent from 13.3 in 1964 to 11.0 in 1968 (Table 10).

Workload over the period 1961-68 in the laboratory departments of reporting general and allied special hospitals in Canada has been increasing.

¹ Public, private and federal. Unless otherwise specified, this reference is implied throughout. ² Hereinafter, referred to simply as "technologists".

The number of laboratory units done in the hospital laboratory per paid hour in the laboratory has climbed 49.2 per cent from 6.1 in 1961 to 9.1 in 1968. Laboratory units done in the hospital laboratory per patient-day have increased from 3.7 in 1964 to 6.0 in 1968 (+62.2 per cent), and in-patient laboratory units (excluding those referred out) per 100 adult and child admissions have risen to 5,849.4 in 1968 from 2,884.9 in 1962 (+102.8 per cent) (Table 11).

In reporting public general and allied special hospitals laboratory department salary cost³ per patient-day increased 115.5 per cent from \$0.84 in 1963 to \$1.81 in 1968, whereas the total hospital salary cost per patient-day increased 76.0 per cent from \$17.14 in 1963 to \$30.16 in 1968 (Table 13). When the former was taken as a percentage of the latter, the resultant proportion was found to have advanced from 4.9 per cent in 1963 to 6.0 per cent in 1968. Of total Revenue Fund expenditure per patient-day, the ratio of laboratory salaries per patient-day represented a steadily increasing proportion, going from 3.1 per cent in 1963 to 4.0 per cent in 1968. Laboratory department salary cost per patient-day was highest in the largest public general hospitals.

Laboratory department salary cost per laboratory unit done in hospital advanced 16.0 per cent from 0.25 in 1964 to 0.29 in 1968 (Table 14). When this ratio was looked at as a percentage of laboratory department direct cost per laboratory

³ Excludes pathologist remuneration.

unit done in hospital over the period 1964-68, it was found to be relatively stable around 58.0 per cent.

Qualified Combined Laboratory and Radiological Technicians

In addition to qualified laboratory technologists there have been an increasing number of qualified combined laboratory and radiological technicians⁴ reported by general and allied special hospitals in Canada during the years 1961-68, i.e., the number of combined technicians has increased 86.3 per cent from 131 in 1961 to 244 in 1968. Over the years covered, full-time combined technicians have represented from 82.4 per cent (for the year 1967) to 94.2 per cent (1964) of total combined technicians employed (Table 15). The greatest proportion of these combined technicians were found to be in public general hospitals under 100 beds in size. At the provincial level, Saskatchewan and Alberta together consistently accounted for the majority of combined technicians employed in general and allied special hospitals; only in 1963, when the proportion of combined technicians amounted to 48.8 per cent of the reported total for Canada. did these two provinces not have a greater proportion.

Paid hours reported by general and allied special hospitals in Canada for combined technicians have decreased 21.8 per cent from 551,409 in 1962 to 430,936 in 1968 (Table 15).

⁴ Hereinafter referred to as "combined technicians".

| Province | 19 | 61 | 19 | 62 | 19 | 63 , | 19 | 964 |
|---|--|--|--|--|---|---|---|--|
| Frovince | Operating | Reporting ² | Operating | Reporting ² | Operating | Reporting | Operating | Reporting |
| Canada Public general by bed size 1 - 9 beds 10 - 24 '' 25 - 49 '' 50 - 99 '' 100 - 199 '' 200 - 299 '' 300 - 499 '' 500 - 999 '' 1,000 + '' | 856 73 219 196 130 121 45 40 26 6 | 374 7 54 91 113 40 39 24 6 | 832 49 208 189 133 126 49 45 26 7 | 364 | 838 48 203 190 138 127 49 45 31 7 | 423 - 11 66 101 120 46 43 29 7 | 845 377 202 194 140 131 55 48 31 7 | 435 6 65 105 125 51 46 30 7 |
| All hospitals Canada Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories | 1, 230 42 9 53 41 288 278 102 162 124 109 3 19 | 426 5 3 28 15 100 141 18 30 34 ;, 50. 1 | 1,250 43 9 53 40 260 319 102 159 126 110 5 24 | 402 5 3 26 12 91 137 16 28 29 54 54 | 1,250 44 9 52 40 262 312 101 157 131 111 .5 26 | 498 6 4 28 13 134 154 21 42 60 1 4 | 1, 269 46 9 51 39 266 317 102 155 141 112 5 26 | 527 6 4 33 15 161 19 29 41 64 41 . 1 2 |
| ······································ | 1965 | | 1966 | | 1967 | | 1968 | |
| | Operating | Reporting | Operating | Reporting | Operating | Reporting | Operating | Reporting |
| Canada Public general by bed size 1 - 9 beds 10 - 24 '' 25 - 49 '' 50 - 99 '' 100 - 199 '' 200 - 299 '' 300 - 499 '' 500 - 999 '' | , 852 36 203 192 144 130 58 51 30 8 | 479 | 869 33 204 197 149 128 63 56 30 9 | 507 | 874 32 206 196 147 128 67 59 30 9 | 526 1 20 94 127 123 64 58 30 9 | 881 32 200 201 145 130 70 58 37 8 | 539 1 23 100 119 126 68 57 37 8 |
| All hospitals Canada | 1, 283 | 5.67 | 1 979 | 500 | 1 077 | 617 | 1.000 | |
| Canada Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories | $ \begin{array}{r} 1, 283 \\ 47 \\ 9 \\ 51 \\ 40 \\ 273 \\ 315 \\ 102 \\ 155 \\ 141 \\ 119 \\ 5 \\ 26 \\ \end{array} $ | $\begin{array}{c} 567\\ 11\\ 3\\ 32\\ 17\\ 153\\ 169\\ 27\\ 40\\ 46\\ 66\\ 1\\ 2\end{array}$ | $1,273 \\ 47 \\ 9 \\ 50 \\ 40 \\ 264 \\ 309 \\ 99 \\ 154 \\ 151 \\ 116 \\ 5 \\ 29$ | 590 11 4 32 19 156 173 300 42 48 71 1 3 | $1, 277 \\ 47 \\ 9 \\ 50 \\ 41 \\ 269 \\ 306 \\ 99 \\ 154 \\ 150 \\ 118 \\ 5 \\ 29 \\ $ | 617 11 3 34 23 163 181 24 41 56 76 1 4 | $1,269 \\ 47 \\ 9 \\ 50 \\ 41 \\ 266 \\ 299 \\ 100 \\ 153 \\ 153 \\ 117 \\ 5 \\ 29$ | 626 12 3 32 23 162 184 26 43 60 76 76 1 4 |

| TABLE 1. Hospital Operating and Reporting, ¹ by Province, 1961 | |
|---|----|
| | 68 |

¹ Based upon the number of hospitals which reported paid hours for qualified laboratory technologists.
 ² Data for 1961 and 1962 include hospital reporting paid hours for unqualified as well as qualified laboratory technologists.

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| TABLE 2. Qualified Laboratory Technologists Employed ¹ as a Percentage of Total Hospital Personnel, ² |
|---|
| General and Allied Special Hospitals, by Province, 1961-68 |

| Desident | 1961 | | 1962 | | 1963 | | 1964 | |
|--|---|--|---|--|---|--|---|--|
| Province | Full-time | Part-time | Full-time | Part-time | Full-time | Part-time | Full-time | Part-time |
| | | per cent | | | | | | |
| Canada | 1, 31 | 0.81 | 1, 34 | 0.76 | 1, 51 | 0,88 | 1.56 | 0.94 |
| Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories | $\begin{array}{c} 0.43\\ 0.89\\ 1.09\\ 0.43\\ 1.39\\ 1.20\\ 1.36\\ 1.69\\ 1.25\\ 2.05\\ 0.72\\ 0.39\end{array}$ | 1.59 0.57 - 0.74 0.99 0.83 - 0.83 0.74 - - | $\begin{array}{c} 0.61\\ 1.10\\ 1.14\\ 0.37\\ 1.44\\ 1.28\\ 1.24\\ 1.73\\ 1.18\\ 2.01\\ -\\ 0.24 \end{array}$ | 1.06 0.34 0.78 0.96 0.76 0.76 0.55 0.82 0.52 0.52 | $\begin{array}{c} 0.73\\ 1.17\\ 1.27\\ 0.35\\ 1.61\\ 1.45\\ 1.51\\ 1.93\\ 1.36\\ 2.21\\ 0.64\\ 0.86\end{array}$ | 1. 47 0. 52 - 1. 36 0. 75 0. 87 0. 84 0. 85 0. 88 0. 88 - 2. 22 | $\begin{array}{c} 0.79\\ 1.06\\ 1.49\\ 0.43\\ 1.67\\ 1.49\\ 1.59\\ 1.96\\ 1.27\\ 2.30\\ 0.65\\ 0.52\end{array}$ | 1.39 0.48 - 1.92 0.75 0.66 0.34 0.58 0.97 - |

See footnote(s) at end of table.

5

| Province | 1965 | | 1966 | | 1967 | | 1968 | |
|--|---|---|---|----------------------------|--|--|--|---|
| | Full-time | Part-time | Full-time | Part-time | Full-time | Part-time | Full-time | Part-time |
| · · · · · · · · · · · · · · · · · · · | | | •••••••••••••••••••••••••••••••••••••• | per | cent | | | I |
| Canada | 1.66 | 1.16 | 1. 79 | 1. 23 | 1.91 | 1, 13 | 2.03 | 1.24 |
| Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories | $\begin{array}{c} 0.91\\ 0.86\\ 1.44\\ 0.46\\ 1.76\\ 1.62\\ 1.67\\ 2.15\\ 1.28\\ 2.32\\ 1.31\\ 0.84\end{array}$ | $\begin{array}{c} - \\ 1.19 \\ 0.71 \\ 0.60 \\ 2.24 \\ 0.78 \\ 0.87 \\ 0.94 \\ 1.14 \\ 1.41 \\ - \end{array}$ | $1.03 \\ 1.01 \\ 1.87 \\ 0.44 \\ 1.90 \\ 1.74 \\ 1.67 \\ 2.21 \\ 1.42 \\ 2.57 \\ 1.90 \\ 0.82 $ | $\begin{array}{c} 0.92 \\$ | 1.050.981.980.621.911.981.822.281.422.691.341.09 | 0.98 0.88 1.52 1.03 0.77 0.77 1.30 1.23 1.09 | 1.29 0.72 2.37 0.60 2.03 2.09 2.07 2.49 1.49 2.71 1.30 1.32 | $\begin{array}{c} 0.66\\ 0.91\\ 1.25\\ 0.53\\ 1.62\\ 1.17\\ 0.73\\ 0.63\\ 1.49\\ 1.10\\ -\end{array}$ |

TABLE 2. Qualified Laboratory Technologists Employed¹ as a Percentage of Total Hospital Personnel,² General and Allied Special Hospitals, by Province, 1961-68 - Concluded

¹ Reported data. ² Estimated data.

TABLE 3. Qualified Laboratory Technologists Employed' by General and Allied Special Hospitals per 100,000 Population,² by Province, 1961-68

| Province | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|--|---|---|--|---|--|---|---|---|
| Canada Newfoundland Prince Edward Island Nous Section | 14.2 2.8 8.6 11.8 | 15.1 4.3 9.3 | 17.6 5.5 11.1 | 18.9 7.2 10.1 17.1 | 21. 1 8. 4 9. 2 17. 2 | 23.5 11.0 10.1 23.8 | 25.8 13.0 10.1 25.9 | 28.1 16.2 8.2 31.8 |
| Nova Scotia New Brunswick | 11.8 4.8 14.4 14.0 16.6 18.8 13.3 19.5 7.1 4.3 | 12.9 4.8 15.5 15.4 15.7 19.8 12.9 19.3 - 4.0 | 14.4 4.3 18.8 17.8 19.1 22.9 15.3 21.7 6.7 15.4 | 17.1 5.2 21.1 18.7 19.6 23.4 15.2 22.7 6.7 7.4 | $\begin{array}{c} 17.2\\ 6.2\\ 24.2\\ 20.8\\ 21.6\\ 26.9\\ 16.2\\ 24.3\\ 14.3\\ 11.1\end{array}$ | 23.8 5.5 27.4 22.7 23.6 27.4 18.9 26.8 21.4 10.3 | 25.9 7.9 27.8 26.8 24.6 27.9 21.3 28.9 13.3 17.2 | 31.8 8.7 30.3 29.1 28.5 23.6 29.4 13.3 16.1 |

¹ Reported data, full-time and part-time. ² Estimate.

Source: Estimated Population of Canada by Province at June 1, 1969 (Catalogue No. 91-201), Research Section, Census Division, DBS.

TABLE 4. Turnover Rates¹ of Full-time Qualified Laboratory Technologists, General and Allied Special Hospitals, by Province, 1962-68

| Province | 1962² | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|--|---|---|---|---|---|--|--|
| Canada | | | | per cent | | | |
| Public general by bed size 1 - 9 beds 10 - 24 "' 25 - 49 " 50 - 99 " 100 - 199 " | 56.8 20.0 54.4 60.0 43.8 56.6 | 36.6 80.0 43.0 37.7 33.1 37.0 | 39.0 18.2 36.9 39.1 35.6 37.0 | 38.2 40.0 33.3 36.8 36.4 34.1 | 36.2 93.3 32.9 32.3 35.9 36.4 | 37.3 23.1 36.6 39.7 39.7 36.2 | $32.2 \\ 44.4 \\ 32.9 \\ 36.3 \\ 34.4 \\ 31.0 $ |
| 300-499 " 500-999 " 1,000+ " All hospitals Canada | 50.0 61.8 74.8 54.9 | 32. 2 39. 3 40. 1 36. 6 | 38.7 40.0 43.6 38.0 | 40. 2 31. 2 53. 8 37. 0 | 34.7 34.6 42.2 35.5 | 38.0 34.5 39.0 37.3 | 30.4 37.2 22.6 32.0 |
| Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories | 93. 8 11. 1 47. 5 18. 2 42. 7 61. 4 52. 0 74. 0 68. 8 54. 5 - | 22. 2 9. 5 22. 2 15. 4 30. 3 35. 8 54. 1 43. 0 56. 6 39. 8 200. 0 100. 0 | $\begin{array}{c} 16.6\\ 16.0\\ 37.2\\ 37.2\\ 35.6\\ 38.0\\ 33.1\\ 49.3\\ 57.9\\ 33.2\\ 200.0\\ 40.0\\ \end{array}$ | 23, 7 73, 7 32, 8 23, 9 30, 3 41, 7 34, 9 36, 1 62, 3 33, 0 40, 0 | 25.8 27.1 31.9 26.0 39.0 40.9 46.3 53.2 37.1 100.0 | 43.9 43.9 18.2 44.3 24.1 30.9 38.0 36.8 46.9 58.4 35.7 57.1 | 26.8 31.6 43.3 22.2 27.6 34.9 28.2 39.6 38.9 26.4 50.0 66.7 |

¹ The turnover rate is an average measure which expresses the number of personnel who leave as a percentage of the average number of persons <u>Number of separations (1968)</u> employed. In 1968, e.g., formula for calculation is <u>Number of employees (1967 + 1968)</u> x 100. <u>2</u>

² In 1962, the data include unqualified, as well as qualified, laboratory technologists.

| | 196 | 31 | . 19 | 62 | 19 | 63 | 19 | 64 |
|---|------------|-----------|--------------|-----------|------------|-----------|------------|-----------|
| Province | | Part-time | | Part-time | Full-time | Part-time | Full-time | Part-time |
| | Full-time | Part-time | Full-time | Part-time | Full-time | Part-time | Full-time | Part-time |
| Canada | | | | | | | | |
| Public general by bed size | 2,199 | 125 | 2,478 | 139 | 2,855 | 179 | 3,106 | 199 |
| 1 - 9 beds | - | - | _ | - | - | - | - | - |
| 10 - 24 " | 7 | 2 | 3 | <u> </u> | 7 | 4 | 4 | 2 |
| 25 - 49 " | 59 | 12 | 55 | 13 20 | 66 152 | 13 21 | 64 154 | 14 25 |
| 50 - 99 · · · · · · · · · · · · · · · · · | 131 398 | 12 18 | 139 420 | 20 25 | 153 457 | 21 | 154 499 | 25 36 |
| 200 - 299 '' | 275 | 29 | 304 | 24 | 339 | 17 | 379 | 17 |
| 300-499 '' | 483 | 28 | 602 | 21 | 616 | .55 | 680 | 40 |
| 500-999 '' | 548 | 15 | 566 | 23 | 813 | 24 | 868 | 50 |
| 1,000 + " | 298 | 9 | 389 | 13 | 404 | 19 | 458 | 15 |
| All hospitals | | | | - | | | | |
| Canada | 2,436 | 158 | 2,634 | 165 | 3, 142 | 196 | 3,416 | 233 |
| Newfoundland | - 13 | | 19 | 1 | 26 | - | 35 | - |
| Prince Edward Island | 8 | 1 | 10 | - | 11 | 1 | 10 | 1 |
| Nova Scotia | 84 | 3 | 93 26 | 3 | 105 26 | 3 | 126 32 | 3 |
| New Brunswick | 29 723 | - 34 | 20 791 | 43 | 970 | 59 | 1,084 | .97 |
| Ontario | 788 | 87 | 899 | 82 | 1,071 | 84 | 1,148 | 89 |
| Manitoba | 141 | 12 | 136 | 11 | 167 | 14 | 177 | 11 |
| Saskatchewan | 174 | - | 180 | 4 | 206 | 8 | 216 | 4 |
| Alberta | 169 | 8 | 168 | 9 | 203 | 11 | 208 377 | 9 19 |
| British Columbia | 305 1 | 13 | 311 | 9 | 353 1 | 15 | 1 | - 15 |
| Northwest Territories | 1 | _ | 1 | _ | 3 | 1 | 2 | - |
| | 1965 | | 1966 | | 19 | 967 | | 68 |
| | Full-time | Part-time | Full-time | Part-time | Full-time | Part-time | Full-time | Part-time |
| | - | | | | | | | |
| Canada | | | | | | | | |
| Public general by bed size | 3,488 | 280 | 3,975 | 350 | 4,471 | 370 | 4,988 | 436 |
| 1 - 9 beds | - 6 | - 5 | - 9 | 9 | 1 | - 7 | 1 | 5 |
| 10 - 24 " | 80 | 22 | 84 | 16 | 102 | 20 | 105 | 24 |
| 50 - 99 " | 172 | 27 | 212 | 25 | 226 | 26 | 237 | 26 |
| 100-199 " | 511 | 45 | 541 | 37 | 561 | 42 | 613 | 49 |
| 200-299 " | 449 | 37 | 550 | 44 | 676 | 57 | 760 | 81 |
| 300 - 499 ** | 819 902 | 65 44 | 1,009 985 | 90 83 | 1,167 | 100 80 | 1,224 | 97 115 |
| 500 - 999 '' 1,000 + '' | 549 | 35 | 585 | 46 | 672 | 38 | 596 | 39 |
| All hospitals | | | | | | | | |
| All nospitalis Canada | 3,828 | 318 | 4, 319 | 394 | 4,853 | 411 | 5, 348 | 484 |
| Newfoundland | | _ | 52 | 2 | 62 | 3 | 80 | 2 |
| Prince Edward Island | 9 | 1 | 11 | | 11 | - | 8 | 1 |
| Nova Scotia | | 6 | 167 | 13 | 185 | 11 | 226 | 16 |
| New Brunswick | | 3 | 34 | - | 49 | - | 50 | 4 |
| Quebec | 1,249 | 128 | 1,423 | 159 | 1,499 | | 1,633 | 165 |
| Ontario | | 100 | 1,448 | 129 | 1,761 | 158 | 1,943 | 186 |
| Manitoba Saskatchewan | | 18 12 | 253 | 9 | 211 | | 230 | 12 |
| Alberta | | 19 | 261 | 16 | 280 | | 312 | 48 |
| British Columbia | | 31 | 468 | 35 | 529 | 33 | 1 | 31 |
| Yukon | 1 | - | 3 | - | 2 | | 2 | - |
| Northwest Territories | . 3 | - | 3 | | 4 | 1 | 5 | - |

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 TABLE 5. Qualified Laboratory Technologists Employed Full-time and Part-time in Reporting

 General and Allied Special Hospitals, by Province, 1961-68

| Province | 1961 ¹ | 19621 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|----------------------------|-------------------|--------|---------|---------|--------|--------|--------|--------|
| Canada | | | | | | | | |
| Public general by bed size | 1, 297 | 1,328 | 975 | 1, 163 | 1, 259 | 1, 349 | 1, 574 | 1,523 |
| 1- 9 beds | - | _ | - | - | _ | _ | | · _ |
| 10 - 24 " | 1 | 1 | 4 | 1 | 2 | 7 | 3 | 8 |
| 25-49 '' | 31 | 31 | 26 | 24 | 24 | 27 | 34 | 34 |
| 50 - 99 '' | 82 | 81 | 55 | 60 | 60 | 62 | 87 | 84 |
| 100 - 199 '' | . 215 | 179 | 145 | 170 | 184 | 189 | 219 | 202 |
| 200 - 299 '' | 145 | 164 | 119 | 133 | 141 | 182 | 222 | 227 |
| 300 - 499 '' | 245 | 271 | 196 | 251 | 301 | 317 | 413 | 363 |
| 500 - 999 '' | 324 | 344 | 271 | 336 | 276 | 326 | 351 | 46 |
| 1,000 + " | 254 | 257 | 159 | 188 | 271 | . 239 | 245 | 14 |
| All hospitals | | | | | | | | |
| Canada | 1, 385 | 1, 391 | . 1,057 | 1, 247 | 1, 340 | 1, 448 | 1, 709 | 1, 634 |
| Newfoundland | 6 | 15 | 5 | 5 | 9 | 12 | 25 | 19 |
| Prince Edward Island | 8 | · 1 | 1 | 2 | 7 | | 2 | 3 |
| Nova Scotia | 34 | 42 | 22 | 43 | . 41 | 54 | 78 · | 89 |
| New Brunswick | 16 | 5 | 4 | · 5 | 8 | . 11 | . 10 | 11 |
| Quebec | 341 | 323 | 267 | 4 366 | 354 | 347 | 451 | · 432 |
| Ontario | 516 | · 518 | 353 | · 422 | 512 | 538 | . 610 | 646 |
| Manitoba | 57 | . 72 | . 82 | 57 | 64 | 79. | 76 | 67 |
| Saskatchewan | : 107 | . 131 | · 83 | 104 | 83 | . 115 | . 119 | . 104 |
| Alberta | 141 | 116 | · 105 | 119 | 132 | 127 | 158 | 115 |
| British Columbia | 159 | 168 | 132 | · · 121 | 129 | 162 | 178 | 144 |
| Yukon | _ | · _ | 1 | 2 | · _ | . – | _ | 1 |
| | | | | | 1 | 1 | 1 | |

TABLE 6. Separations of Qualified Laboratory Technologists Employed Full-time from Reporting General and Allied Special Hospitals, by Province, 1961-68

¹ For the years 1961 and 1962, data for separations include unqualified, as well as qualified, laboratory technologists.

| TABLE 7. Paid Hours | of Qualified Laboratory Technologists Employed ¹ in Reporting General and |
|---------------------|--|
| | Allied Special Hospitals, by Province, 1962-68 |

| Province | 1962² | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|----------------------------|-----------------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Canada | | | • | | | | |
| Public general by bed size | 8,228,752 | 5,925,553 | 6,600,098 | 7,450,977 | 8,201,504 | 9,075,510 | 10, 244, 807 |
| 1- 9 beds | - | _ | | _ | - | 550 | 2, 080 |
| 10 - 24 " | 37,091 | 17, 386 | 8,353 | 15,798 | 23,693 | 29,645 | 42,918 |
| 25 - 49 " | 206,001 | 140, 519 | 147,687 | 166,036 | 185, 675 | 214,091 | 239,024 |
| 50 - 99 '' | 410, 528 | 334, 340 | 345, 706 | 379,960 | 453,608 | 482, 437 | 508, 381 |
| 100 - 199 '' | 1, 275, 198 | 974,657 | 1,084,092 | 1, 103, 983 | 1,127,936 | 1, 158, 271 | 1,329,906 |
| 200 - 299 ** | 1,041,437 | 711,770 | 834, 444 | 961,879 | 1, 163, 392 | 1,347,881 | 1,594,769 |
| 300 - 499 '' | 1,954,333 | 1,269,946 | 1, 464, 300 | 1, 745, 195 | 2,025,520 | 2,406,755 | 2, 392, 661 |
| 500-999 '' | 2, 126, 261 | 1,634,341 | 1,756,545 | 1,911,879 | 2,039,838 | 2,115,091 | 2,932,284 |
| 1,000 + " | 1, 177, 903 | 842, 594 | 958,971 | 1, 166, 247 | 1, 181, 842 | 1, 320, 789 | 1, 202, 784 |
| All hospitals | | | | | | | |
| Canada | 8, 683, 602 | 6, 371, 846 | 7, 126, 210 | 7, 996, 690 | 8, 703, 682 | 9, 648, 430 | 10,856,350 |
| Newfoundland | 121, 485 | 51, 265 | 57, 181 | 73,927 | 85,653 | 103, 897 | 153, 152 |
| Prince Edward Island | 22, 006 | 24,972 | 25, 159 | 19,736 | 19,800 | 14, 264 | 19, 237 |
| Nova Scotia | [.] 284, 184 | 210, 108 | 259,862 | 264,903 | 351,912 | 409, 839 | 472, 988 |
| New Brunswick | 98,770 | 49,950 | 65,832 | 68,770 | 71,781 | 94, 300 | 100, 549 |
| Quebec | 2, 171, 788 | 1,951,470 | 2, 291, 554 | 2,627,423 | 2, 792, 465 | 2,818,445 | 3, 148, 250 |
| Ontario | 3,380,901 | 2, 212, 295 | 2,399,189 | 2,738,599 | 2,965,950 | 3, 524, 855 | 3,948,826 |
| Manitoba | 501,744 | 341, 342 | 332, 572 | 378,769 | 412, 363 | 450,950 | 511,937 |
| Saskatchewan | 625,901 | 405,900 | 470, 676 | 520,366 | 546, 542 | 581,305 | 590, 490 |
| Alberta | 609,447 | 399,757 | 428,785 | 442, 368 | 494,047 | 564,220 | 682, 323 |
| British Columbia | 858,901 | 716,421 | 788,965 | 852, 525 | 951,462 | 1,070,249 | 1, 212, 735 |
| Yukon | 6,208 | 2, 112 | 2,732 | 4, 390 | 5,637 | 5,763 | 5, 554 |
| Northwest Territories | 2, 267 | 6,254 | 3,703 | 4,914 | 6,070 | 10,343 | 10, 309 |

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¹ Full-time and part-time.
 ² In 1962, data for paid hours include unqualified, as well as qualified, laboratory technologists.

| Province | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Canada . | | | | | | | | |
| Public general by bed size | 87.8 | 90.3 | 92.3 | 94.6 | 96.5 | 96.4 | 98.3 | 101.5 |
| 1 - 9 beds | 5.7 | 5.7 | 5.7 | 6.4 | 6.9 | 6.3 | 6.1 | 5.9 |
| 10 - 24 " | 12.2 | 12.1 | 12.6 | 12.1 | 12.3 | 12.1 | 12.0 | 11.8 |
| 25 - 49 '' | 26.6 | 26.2 | 26.0 | 25.7 | 25.8 | 25.5 | 24.9 | 24.8 |
| 50 - 99 '' | 55.7 | 55.0 | 55.1 | 54.8 | 54.7 | 54.4 | 53.7 | 53.6 |
| 100 - 199 '' | 118.3 | 110.9 | 110.7 | 110.0 | 110.1 | 106.8 | 105.8 | 106.1 |
| 200 - 299 '' | 186.9 | 186.3 | 185.6 | 188.5 | 191.2 | 193.0 | 190.1 | 192.2 |
| 300 - 499 '' | 327.0 | 319.3 | 311.2 | 306.5 | 304.8 | 301.5 | 308.0 | 313.1 |
| 500 - 999 '' | 600.8 | 592.5 | 563.5 | 569.1 | 567.2 | 556.6 | 548.0 | 548.1 |
| 1,000 + '' | 1,043.5 | 1,039.7 | 1,049.6 | 1,063.0 | 1,043.6 | 1,039.9 | 1,009.0 | 1,039.6 |
| All hospitals | | | | | | | | |
| Canada | 83.7 | 81.4 | 86.7 | 83.6 | 88.2 | 89.1 | 91.4 | 94.1 |
| Newfoundland | 39.9 | 38.4 | 42.6 | 40.9 | 44.9 | 42.9 | 45.8 | 47.9 |
| Prince Edward Island | 54.2 | 54.1 | 53.4 | 53.3 | 53.6 | 56.0 | 57.0 | 56.7 |
| Nova Scotia | 65.7 | 67.5 | 70.5 | 73.3 | 74.1 | 77.8 | 79.7 | 79.5 |
| New Brunswick | 80.8 | 80.5 | 80.4 | 83.9 | 83.5 | 84.0 | 83.3 | 85.3 |
| Quebec | 104.2 | 110.3 | 110.4 | 106.9 | 110.4 | 114.2 | 115.6 | 121.6 |
| Ontario | 131.8 | 111.3 | 139.5 | 120.3 | 139.3 | 140.1 | 146.4 | 150.3 |
| Manitoba | 54.8 | 53.5 | 55.1 | 53.8 | 53.7 | 55.0 | 54.6 | 55.6 |
| Saskatchewan | 36.9 | 36.4 | 38.3 | 39.3 | 39.2 | 39.3 | 39.1 | 38.1 |
| Alberta | 63.3 | 63.9 | 61.8 | 62.8 | 66.1 | 65.3 | 66.3 | 69.5 |
| British Columbia | 86.7 | 82.1 | 86.5 | 84.2 | 86.4 | 89.1 | 92.0 | 96.9 |
| Yukon | 27.4 | 30.3 | 14.6 | 13.6 | 13.1 | 14.2 | 13.7 | 13.0 |
| Northwest Territories | 3.7 | 6.0 | 8.0 | 7.2 | 6.8 | 6.5 | 7.0 | 5.9 |

TABLE 8. Average Number of Patients per Day,¹ General and Allied Special Hospitals, by Province, 1961-68

¹ The average number of patients (adults and children) in a given hospital on a given day.

| Province | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|--|----------------------|--|--|--|--|--|--|--|
| | |] | Paid hours, to | otal hospital | er rated bed | | | |
| Canada Public general by bed size 1 - 9 beds 10 - 24 '' | | 3,873.1 3,121.3 2,440.4 | 3,959.2 3,101.0 2,475.3 | 4,032.0 3,272.3 2,467.0 | 4,143.8 3,462.5 2,519.6 | 4,230.0 3,408.4 2,556.4 | 4,299.0 3,370.8 2,587.2 | 4,400.5 3,092.3 2,643.7 |
| 25 - 49 '' | •• •• •• •• | 2,585.0 2,927.2 3,596.5 3,906.4 4,188.4 4,508.2 | 2,624.3 3,059.6 3,640.3 3,973.8 4,238.4 4,656.4 | 2,609.6 3,053.6 3,666.4 3,890.4 4,354.8 4,878.6 | 2,595.0 3,125.9 3,759.8 4,055.4 4,429.2 5,089.9 | 2,648.6 3,156.3 3,753.1 4,135.7 4,499.6 5,265.7 | 2,667.8 3,197.7 3,797.9 4,111.6 4,621.3 5,434.5 | 2,725.1 3,302.6 3,781.6 4,211.9 4,643.9 5,456.8 |
| 500 - 999 '' 1,000 + '' All hospitals | •• | 4,823.3 | 4,832.3 | 4,878.0 5,060.3 | 5,046.4 | 5,232.9 | 5,086.6 | 5,482.0 |
| Canada Newfoundland Prince Edward Island Nova Scotia | | 3, 538. 1 4, 231. 4 2, 901. 8 3, 695. 5 | 3,576.6 4,008.6 2,954.6 3,870.6 | 3,656.9 3,773.1 3,021.8 3,871.3 | 3,777.9 3,734.4 2,997.3 3,824.8 | 3,864.6 3,570.6 3,146.8 3,899.4 | 3,941.6 3,866.9 3,212.2 4,246.1 | 4,039. 3 4,370.7 3,226.4 4,241.5 |
| New Brunswick Quebec Ontario | ··· ··· | 3,612.6 3,669.3 3,596.1 | 4,027.7 3,678.4 3,671.6 3,650.3 | 4,027.5 3,879.4 3,741.1 3,759.8 | 4,150.8 4,110.4 3,821.0 3,832.1 | 4,214.2 4,174.4 3,969.6 4,022.1 | 4,257.3 4,246.1 4,059.1 4,058.8 | 4,263.3 4,273.0 4,191.1 4,335.9 |
| Saskatchewan | | 3,172.2 3,095.1 3,253.7 } 1,983.3 | 3,243.7 3,179.6 3,201.4 { 2,200.7 1,836.9 | 3,285.6 3,012.6 3,376.9 2,074.6 1,754.4 | 3,410.7 3,110.4 3,470.5 2,063.3 1,807.6 | 3,423.0 3,135.0 3,498.2 2,087.7 1,915.3 | 3,420.0 3,198.7 3,543.0 2,072.1 1,893.9 | 3,387.4 3,332.8 3,672.5 2,022.3 2,022.0 |

TABLE 9. Selected Paid Hours Ratios, General and Allied Special Hospitals, by Province, 1961-68

| , General and Allied Special Hospitals, by Province, 1961-68 - Concluded |
|--|
| |

| Province | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|----------------------------|------|--------|---------------|----------------|---------------|---------------|------|------|
| | | P | aid hours, to | tal hospital p | personnel, pe | r pațient-day | 1 | |
| Canada | | | | | | | | |
| Public general by bed size | 12.5 | 10.0 | 10.0 | | | | | |
| 1 - 9 beds | | 12.9 | 13.2 | 13.6 | 13.9 | 14.4 | 15.0 | 15.1 |
| 10 - 24 ** | 10.5 | 10.7 | 10.6 | 10.5 | 10.5 | 11.4 | 11.8 | 12.0 |
| | 8.8 | 9.0 | 8.9 | 9.2 | 9.4 | 9.6 | 9.9 | 10.3 |
| | 9.0 | 9.1 | 9.2 | 9.4 | 9.4 | 9.7 | 10.0 | 10.2 |
| 50 - 99 " | 10.1 | 10.0 | 10.3 | 10.5 | 10.8 | 10.9 | 11.4 | 11.7 |
| 100-199 " | 11.8 | 12.2 | 12.4 | 12.8 | 12.9 | 13.2 | 13.4 | 13.4 |
| 200-299 " | 13.5 | 13.3 | 13.6 | 13.6 | 13.9 | 14.2 | 14.4 | 14.5 |
| 300-499 " | 13.1 | 13.7 | 13.8 | 14.3 | 14.7 | 15.3 | 15.9 | 15.4 |
| 500-999 " | 14.2 | 14.4 | 15.1 | 15.7 | 16.3 | 17.2 | 18.3 | 18.3 |
| 1,000 + " | 14.7 | 15.7 | 15.6 | 16.0 | 16.5 | 17.0 | 17.2 | 17.6 |
| All hospitals | | | | | | | 1 | |
| Canada | 11.6 | 11.8 | 12.0 | 12.4 | 12.6 | 13.0 | 13.5 | 13.6 |
| Newfoundland | 12.9 | 12.6 | 12.6 | 13.4 | 13.6 | 14.4 | 15.3 | 16.0 |
| Prince Edward Island | 12.6 | 11.8 | 12.1 | 12.4 | 12.3 | 12.3 | 12.7 | 12.8 |
| Nova Scotia | 13.4 | 13.3 | 13.6 | 13.5 | 13.8 | 13.8 | 14.9 | 15.1 |
| New Brunswick | 12.9 | 12.9 | 13.2 | 13.4 | 13.7 | 13.8 | 14.1 | 14.3 |
| Quebec | 11.7 | 11.9 | 12.2 | 13.1 | 13.6 | 14.6 | 14.7 | 14.4 |
| Ontario | 11.7 | 12.0 | 12.1 | 12.4 | 12.5 | 12.9 | 13.3 | 13.7 |
| Manitoba | 12.1 | 12.1 | 12.3 | 12.6 | 13.1 | 13.5 | 14.0 | 14.4 |
| Saskatchewan | 10.5 | 10.8 | 10.6 | 11.0 | 11.3 | 11.4 | 11.9 | 12.1 |
| Alberta | 10.6 | 10.5 | 10.9 | 10.9 | 10.9 | 11.4 | 11.7 | 12.1 |
| British Columbia | 10.9 | 10.8 | 10.7 | 11.2 | 11.4 | 11.2 | 11.7 | 12.0 |
| Yukon | 10.8 | 1 | 12.4 | 13.5 | 11.4 | 11.3 | 13.3 | 11.9 |
| Northwest Territories | 12.2 | } 11.1 | 10.9 | 11.7 | 13.8 | 12.9 | 13.3 | 13.7 |
| | 12.2 | J | 10.5 | 11.1 | 14.0 | 12.3 | 12.0 | 10.0 |

¹ Adults and children.

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TABLE 10. Selected Laboratory Paid Hours Ratios, General and Allied Special Hospitals, by Province, 1961-68

| Province | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|----------------------------|-------------------|--------|-----------|-------------------|---------------|-----------------------|-------|------|
| | | | Paid hour | s laboratory | per 100 patie | ent-days ¹ | | |
| Canada | | | | | | | | |
| Public general by bed size | 48.0 | - 52.0 | 53.0 | 57.0 | 60.9 | 64.8 | 71.7 | 76. |
| 1- 9 beds | 20.0 | 22.0 | 30.0 | 29.0 | 28.9 | · 34.7 | 31.2 | 35. |
| 10-24 | 22.0 | 24.0 | 22.0 | 23.0 | 22.2 | 24.6 | 26.4 | 28. |
| 25-49 " | 20.0 | 22.0 | 23.0 | 25.0 | 25.0 | 26.4 | 28.7 | 29. |
| 50 - 99 ** | 24.0 | 24.0 | 25.0 | 26.0 | 27.5 | 29.7 | 33.2 | 37. |
| 100-199 '' | 39.0 | 43.0 | 43.0 | 47.0 | 48.8 | 51.2 | 54.2 | 57. |
| 200-299 " | 51.0 | 53.0 | 51.0 | 53.0 | 57.3 | 60.4 | 66.4 | 69. |
| 300-499 " | 54.0 | 62.0 | 63.0 | 67.0 | 70.5 | 75.4 | 83.9 | 85. |
| 500-999 " | 63.0 | 63.0 | 66.0 | 73.0 | 77.0 | 84.6 | 94.2 | 100. |
| 1,000 + | 72.0 | 77.0 | 80.0 | 79.0 | 90.1 | 92.6 | 100.3 | 113. |
| All hospitals | | | | | и 2 | | | |
| Canada | 44.0 | 47.0 | 47.0 | 51.0 | 53.8 | 58.0 | 63.5 | 68. |
| Newfoundland | 48.0 | 57.0 | 49.0 | 50.0 | 54.0 | 65.4 | 83.8 | 99. |
| Prince Edward Island | 27.0 | 28.0 | 30.0 | 32.0 | 28.1 | 26.2 | 26.1 | 27. |
| Nova Scotia | 38.0 | 41.0 | 45.0 | 49.0 | 52.5 | 53.7 | 66.6 | 73. |
| New Brunswick | 17.0 | 18.0 | 18.0 | 17.0 | 19.3 | 19.9 | 21.6 | 23. |
| Quebec | 52.0 | 55.0 | 55.0 | 62.0 | 68.2 | 73.9 | 78.5 | 80. |
| Ontario | 39.0 | 44.0 | 45.0 | 49.0 | 51.3 | 56.1 | 62.6 | 68. |
| Manitoba | 55.0 | 52.0 | 50.0 | 52.0 | 56.3 | 59.1 | 63.6 | 69. |
| Saskatchewan | 57.0 | 60.0 | 58.0 | 62.0 | 65.3 | 65.4 | 69.1 | 74. |
| Alberta | 36.0 | 36.0 | 37.0 | 36.0 | 34.6 | 38.5 | 43.4 | 49. |
| British Columbia | 47.0 | 48.0 | 45.0 | 47.0 | 47.9 | 50.3 | 55.2 | 63. |
| Yukon | 26.0 | 25.0 | 29.0 | 23.0 | 29.7 | 26.0 | 26.6 | 27. |
| Northwest Territories | 19.0 [°] | 47.0 | 17.0 | 19.0 ⁻ | 22.5 | 26.4 | 25.0 | 26. |

¹ Adults and children.

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| Province | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|----------------------------|------|--------|----------------|---------------|---------------|--------------|---------|-------|
| | | Paid I | nours laborate | ory per 100 l | aboratory uni | ts done in h | ospital | |
| Canada | | | | | | | | |
| Public general by bed size | | | | 13.2 | 12.9 | 12.0 | 11.7 | 10.9 |
| 1 - 9 beds | | | | 8.1 | 7.2 | 11.9 | 17.1 | 10.8 |
| 10 - 24 " | | | | 18.8 | 16.1 | 14.6 | 14.1 | 13.4 |
| 25 - 49 '' | | | | 15.2 | 14.2 | 13.5 | 12.8 | 11.7 |
| 50 - 99 '' | | | | 12.8 | 12.4 | 11.9 | 12.0 | 11.0 |
| 100 - 199 '' | | | | 13.1 | 12.7 | 12.1 | 11.3 | 10.6 |
| 200 - 299 '' | | | | 13.9 | 14.1 | 12.9 | 12.3 | 11.4 |
| 300 - 499 '' | | •• | | 13.5 | 12.8 | 12.1 | 12,4 | 11.0 |
| 500 - 999 '' | | •• | | 13.1 | 12.4 | 12.0 | 11.5 | 10.6 |
| 1,000 + " | | •• | •• | 12.3 | 12.7 | 11.0 | 10.8 | 11.0 |
| All hospitals | | | | | | | | |
| Canada | •• | •• | | 13,3 | 12.9 | 12,0 | 11.8 | 11.0 |
| Newfoundland | | ** | · | 12.6 | 11.6 | 11.4 | 13.7 | 13.3 |
| Prince Edward Island | | | ••• | 10.9 | 8.6 | 9.7 | 9.1 | 8.7 |
| Nova Scotia | | | | 20.3 | 19.6 | 18.2 | 20,8 | 20, 1 |
| New Brunswick | •• | | | 16.8 | 16.7 | 15.5 | 16.3 | 15.3 |
| Quebec | | | | 12.3 | 12.6 | 11.6 | 11.1 | 10.0 |
| Ontario | | | | 13.9 | 13.2 | 12.4 | 12.2 | 11.2 |
| Manitoba | · | | | 13.8 | 13.5 | 12.5 | 12.5 | 12.7 |
| Saskatchewan | | | | - | _ | | | |
| Alberta | | | | 12.3 | 11.2 | 10.8 | 9.8 | 9.3 |
| British Columbia | | | | 12.3 | 11.4 | 10.4 | 10.2 | 10.9 |
| Yukon | | | | 10.4 | 13.6 | 11.1 | 12.5 | 10.2 |
| Northwest Territories | •• | •• | •• | 18.8 | • 11.8 | 9.9 | 9.8 | 12.3 |

TABLE 10. Selected Laboratory Paid Hours Ratios, General and Allied Special Hospitals, by Province, 1961-68 - Concluded

¹ Adults and children.

TABLE 11. Selected Laboratory Unit Measurement Ratios, General and Allied Special Hospitals, by Province, 1961-68

| Province | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|----------------------------|------|--------------|---------------|---------------|---------------|---------------|----------------|------------------|
| | Nun | ber of labor | atory units d | one in hospit | al laboratory | y per paid ho | ur in laborato | ory ¹ |
| Canada | | | | | | | | |
| Public general by bed size | 6.1 | 6.2 | 7.1 | 7.6 | 7.9 | 8.3 | 8.6 | 9.2 |
| 1 - 9 beds | 5.1 | 5.0 | 5.9 | 12.3 | 13.9 | 5.4 | 5.3 | 6.5 |
| 10 - 24 '' | 4.8 | 4.4 | 5.2 | 5.3 | 6.2 | 6.9 | 7.1 | 7.6 |
| 25 - 49 '' | 5.5 | 5.6 | 6.2 | 6.6 | 7.0 | 7.4 | 7.8 | 8.7 |
| 50 - 99 '' | 7.0 | 7.1 | 7.9 | 7.8 | 8.1 | 8.6 | 8.7 | 9.4 |
| 100 - 199 '' | 6.6 | 6.7 | 7.4 | 7.7 | 7.9 | 8.4 | 8.8 | 9.3 |
| 200 - 299 '' | 5.7 | 6.2 | 6.7 | 7.2 | 7.1 | 7.8 | 8.1 | 8.7 |
| 300 - 499 '' | 6.0 | 5.8 | 6.9 | 7.4 | 7.8 | 8.1 | 8.0 | 9.1 |
| 500 - 999 '' | 5.7 | 6.5 | 7.3 | 7.7 | 8.0 | 8.3 | 8.9 | 9.5 |
| 1,000 + '' | 6.8 | 6.0 | 7.0 | 8.1 | 7.9 | 9.1 | 9.3 | 9.1 |
| All hospitals | | | | | | | | |
| Canada | 6, 1 | 6.2 | 7.1 | 7.5 | 7.8 | 8.3 | 8.5 | 9.1 |
| Newfoundland | 6.1 | 6.3 | 7.6 | 7.9 | 8.6 | 8.1 | 6.9 | 8.0 |
| Prince Edward Island | 8.7 | 8.6 | 10.3 | 9.2 | 11.6 | 10.3 | 11.0 | 11.4 |
| Nova Scotia | 4.6 | 4.9 | 4.9 | 4.9 | 5.1 | 5.5 | 4.8 | 5.0 |
| New Brunswick | 4.3 | 5.5 | 6.9 | 5.9 | 6.0 | 6.4 | 6.2 | 6.6 |
| Quebec | 6.2 | 6.1 | 7.4 | 8.1 | 7.9 | 8.7 | 9.2 | 10.1 |
| Ontario | 6.5 | 6.5 | 7.1 | 7.2 | 7.6 | 6.1 | 8.2 | 8.9 |
| Manitoba | 4.9 | 5.8 | 6.5 | 7.3 | 7.4 | 7.9 | 7.9 | 7.8 |
| Saskatchewan | 5.2 | 5.3 | 9.0 | _ | - | 7.3 | 7.8 | 8.2 |
| Alberta | 6.5 | 7.0 | 7.3 | 8.1 | 8.9 | 9.2 | 10.2 | 10.7 |
| British Columbia | 6.5 | 6.7 | 7.6 | 8.1 | 8.8 | 9.5 | 9.8 | 9.3 |
| Yukon | 7.0 | 5.7 | 6.2 | 9.6 | 7.3 | 9.0 | 8.0 | 9.8 |
| Northwest Territories | 4.0 | 6.2 | 7.4 | 5.3 | 8.5 | 10.3 | 10.2 | 9.1 |

⁴ Adults and children.

| * | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|----------------------------|-----------|---------------|--------------|---------------|----------------|---------------|-------------------------|----------------|
| | | Number of | laboratory u | nits done in | hospital labo | oratory per p | atient-day ¹ | |
| Canada | | | | | | 1 - - | | |
| Public general by bed size | | | •• | 4.1 | 4.6 | 5.3 | 6.1 | 7.0 |
| 1- 9 beds | | | •• | 1.0 | 1.1 | 1.3 | 1.4 | 1.5 |
| 10- 24 ** | | · | . | 1.1 | 1.2 | 1.6 | 1.7 | 2.0 |
| 25-49 " | | | ı | 1.6 | 1.7 | 1.9 | 2.1 | 2.5 |
| 50-99 ** | | | ••• | 2.0 | 2.2 | 2.5 | 2.8 | . 3.4 |
| 100-199 " | · · · | | . | 3.5 | . 3.7 | 4.3 | 4.8 | 5.4 |
| 200-299 ** | | | · | 3.7 | 4.0 | 4.7 | 5.4 | 6.1 |
| 300-499 " | | · · · | · •• | . 4.7 | 5.3 | 6.1 | 6.7 | 7.8 |
| 500-999 " | | · · · | •• | 5.5 | 5.9 | 7.1 | 8.4 | 9.5 |
| 1,000+ " | | | | 5.9 | , 7.3 | . 8. 5 . | 9.3 | 10.3 |
| | | • | • | | | | | John April |
| All hospitals | | : | • • | - | | | | |
| | | | | 1.1 | | | . · | |
| Canada | | : •• | •• | 3.7 | 4.1 | 4.7 | 5.3 | 6.0 |
| Newfoundland | · | i | 4 j •• | i 3.5 | 3.8. | . 4.6 | 5.1 | 7.1 |
| Prince Edward Island | 1 · · · · | ••• | • •• | 2.9 | 3.2 | . 2. 7 | 2.8 | 3.1 |
| Nova Scotia | · · · · | · · · | · · · | 2.4 | 2.6 | 2.9 | 3.1 | 3.6 |
| New Brunswick | · · · · | · | · . •• | 1.0 | ' 1.1 | 1.3 | 1.3 | 1.5 |
| Quebec | | | | 4.8 | 5.6 | 6.2 | 6.9 | 7.7 |
| Ontario | ·· | •• | • •• | 3.6 | ; 3.9 | 4.5 | 5.0 | 6.0 |
| Manitoba | · · · · | •• | | 3.5 | 3.8 | 4.5 | . 4.8 | 5.0 |
| Saskatchewan | · · · | | · •• | | ۰ | . , 4.7 | .5.4 | · 5.8 |
| Alberta | | · | | 2.8 | · 3.0 | 3.5 | 4.5 | 5.3 |
| British Columbia | | | •• | 3.6 | 4.0 | 4.5 | 5.1 | 5.5 |
| Yukon | | •• | | 2.1 | 2.3 | 2.1 | 2:0 | 2.5 |
| Northwest Territories | | | . | 1.0 | 1.8 | 2.6 | 2.7 | . 2.5 |
| · · · | | Number of in- | patient labo | atory units (| excl. referred | out) per 10 | Dadmissions | 1 ['] |
| • | · · · · | 1 | - · | | [<u> </u> | | | |
| Canada | · . | | | | | | | |
| Public general by bed size | | 2, 795. 3 | 3, 112. 2 | 3, 525. 4 | 4,020.7 | 4,544.3 | 5,167.0 | 5, 831. 1 |
| 1- 9 beds | | 473.5 | 414.4 | 574.7 | 637.7 | 622.0 | 632.2 | 728.7 |
| 10- 24 " | | 561.6 | 630.7 | 645.2 | 718.9 | 808.1 | 871.7 | 965.8 |
| 25-49 " | | 783.9 | ÷888.9 | 1,011.3 | 1,072.5 | 1,163.1 | 1,292.8 | 1,457.6 |
| 50- 99 | | 1,327.2 | 1,515.9 | 1,519.5 | 1, 723. 4 | 1,897.7 | 2,071.7 | 2, 392. 3 |
| 100-199 " | | 2, 276. 8 | 2,439.9 | 2, 719. 3 | 3,045.6 | 3,399.0 | 3,690.6 | 3, 983. 9 |
| 200-299 " | | 2,773.1 | 2,958.3 | 3, 346. 9 | 3,622.2 | 4,110.5 | 4,536.0 | 4,838.7 |
| 300-499 " | | 3, 424. 6 | 3,863.2 | 4,350.2 | 4, 992. 7 | 5,509.4 | 6,077.0 | 6,854.0 |
| 500-999 " | | 4,331.0 | 4,879.6 | 5,631.9 | 6,351.5 | 7,117.4 | 8,416.1 | 9,149.4 |
| 1,000 + " | | 5, 110. 4 | 5,857.4 | 6,600.3 | 7, 270. 5 | 8,603.5 | 10,013.3 | 11,640.5 |
| All hospitals | | | | | | | | |
| Canada | | 2, 884. 9 | 3, 189.6 | 3, 607. 7 | 4,089.7 | 4,619.4 | 5, 205. 3 | 5, 849. 4 |
| Newfoundland | | 1,892.1 | 2, 169. 3 | 2, 557.0 | 2, 899. 9 | 3,039.0 | 3, 449. 7 | 4,550.2 |
| Prince Edward Island | | 1,976.6 | 2,358.3 | 2,001.0 | 2, 055. 3 | 1,996.0 | 2,048.1 | 4, 550. 2 |
| Nova Scotia | | 1,576.3 | 1,729.1 | 1,939.9 | 2,255.5 | 2,366.7 | 2, 514.8 | 2,157.3 |
| New Brunswick | | 980.9 | 1, 317.1 | 1,017.5 | 1,104.2 | 1,207.9 | 1,241.2 | 1,366.5 |
| Quebec | | 3,729.7 | 4, 164. 9 | 4,921.9 | 5, 720. 0 | 6, 591. 2 | 7, 250. 1 | 7,772.8 |
| Ontario | | 3,070.1 | 3,446.0 | 3,847.0 | 4,369.3 | 4,886.3 | 5,610.7 | 6,455.2 |
| Manitoba | | 3,022.3 | 3,099.4 | 3,541.3 | 3,782.7 | 4,326.4 | 4,576.9 | 4, 566. 9 |
| Saskatchewan | | 2, 590.6 | 2,680.8 | 2,863.2 | 3,206,2 | 3,581.6 | 3, 996. 4 | 4, 300. 9 |
| Alberta | | 2,228.6 | 2,415.4 | 2,640.9 | 2,863.7 | 3, 284. 7 | 4, 152.8 | 5,041.1 |
| British Columbia | | 2,622.2 | 2, 791. 6 | 3,097.0 | 3,297.1 | 3, 284. 1 | 4,152.8 | 4,927.7 |
| Yukon | | 1,109.6 | 1,173.5 | 1,417.7 | 1, 523. 4 | 1,521.9 | 1,488.4 | 1,611.9 |
| Northwest Territories | | 2,884.9 | 1,312.3 | 881.5 | 1,360.0 | 1, 829. 3 | 1,919.7 | 1,621.4 |
| | | _, | | | 1,000.0 | 1,000.0 | 1,515.1 | 1,021.4 |

TABLE 11. Selected Laboratory Unit Measurement Ratios, General and Allied Special Hospitals,by Province, 1961-68 - Concluded

¹ Adults and children.

TABLE 12. Revenue Fund Expenditure per Patient-day, Public General and Allied Special Hospitals, by Province, 1961-68

| Province | 196 1 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|----------------------------|--------|---------|---------|--------|--------|--------|--------|--------|
| Canada | | | | do | llars | · | | |
| Public general by bed size | 24.32 | 26.36 | 28.58 | 31.00 | 34.05 | 38.56 | 43.40 | 48.44 |
| 1- 9 beds | 19.94 | 21.69 | 23. 33 | 23.98 | 23.43 | 26.74 | 29.95 | 33, 74 |
| 10 - 24 " | 18.50 | 19.84 | 20.44 | 22, 19 | 23.64 | 26.13 | 28.87 | 32, 50 |
| 25-49 " | 19.02 | 20.09 | 21.28 | 22.59 | 24.37 | 27.03 | 30, 37 | 34.18 |
| 50-99 '' | 19.53 | 20.81 | 22. 50 | 23.88 | 26.11 | 29.34 | 33, 12 | 37, 30 |
| 100 - 199 '' | 22.13 | 24.23 | 26.15 | 28.60 | 31.18 | 35.09 | 38,63 | 42.56 |
| 200 - 299 '' | 24.98 | 26.61 | 28.61 | 30.39 | 33.37 | 37.97 | 41.78 | 46,62 |
| 300 - 499 '' | 25, 21 | 27.30 | 29.30 | 32. 19 | 35.90 | 40.45 | 45.48 | 49.14 |
| 500 - 999 '' | 27,89 | 29.82 | 33.01 | 36.16 | 39.91 | 45.84 | 52,76 | 58.19 |
| 1,000 + " | 30.09 | 33.00 | 35.34 | 38,02 | 40.97 | 46, 24 | 51,60 | 59.31 |
| | | | | | | | | - |
| All hospitals | | | | | | | | |
| Canada | 23, 07 | 24. 82 | 26.87 | 29. 18 | 31.92 | 36,06 | 40, 38 | 45, 01 |
| Newfoundland | 19.92 | 21.15 | 23.01 | 26.27 | 28.34 | 32. 22 | 38, 56 | 44.87 |
| Prince Edward Island | 19.06 | 18,81 | 20.46 | 22.69 | 24.43 | 26,61 | 29, 93 | 31.62 |
| Nova Scotia | 23,64 | 25.37 | 27.31 | 29.35 | 32.05 | 34.00 | 40, 25 | 44.97 |
| New Brunswick | 23.66 | 25.55 | 27.46 | 28,68 | 30.03 | 32, 25 | 36.02 | 39, 20 |
| Quebec | 23. 18 | 25.16 | 28.45 | 32, 39 | 36.82 | 43.96 | 47.62 | 49.82 |
| Ontario | 24.26 | 26, 22 | 28.00 | 29,84 | 32.15 | 35,69 | 40, 41 | 46.95 |
| Manitoba | 21.94 | 22,69 | 24.25 | 25.63 | 27,90 | 31, 33 | 35.54 | 39,89 |
| Saskatchewan | 21.16 | 22.82 | 23.40 | 25.62 | 27.65 | 30, 52 | 33.94 | 38.62 |
| Alberta | 19.90 | 21.32 | 23, 08 | 24, 27 | 25, 89 | 29.07 | 33.87 | 36.85 |
| British Columbia | 23.48 | 24.89 | 26.07 | 27.45 | 29.37 | 31.54 | 35, 50 | 40.98 |
| Yukon | 29.43 | ի | (45.32 | 50,25 | 51.73 | 52.87 | 70.74 | 89.87 |
| Northwest Territories | 32. 21 | } 28.37 | 22,04 | 25. 18 | 27.68 | 29.37 | 32.87 | 36.36 |

¹ Only public hospitals are required to submit financial data to the Dominion Bureau of Statistics.

| TABLE 13. Salary Cost per Patient-day, ¹ Total Hospital and Laboratory Department, Public General and |
|--|
| Allied Special Hospitals, ² by Province, 1961-68 |

| Province | | Total | hospital | salary o | cost per | patient- | day¹ | | Labor | atory s | alary c | ost ^s pe | r patie | nt-day ¹ |
|----------------------------|--------|--------|----------|----------|----------|----------|---------|--------|-------|---------|-------------|---------------------|---------|---------------------|
| | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
| Canada | | • | د ۱ | | · | | dollars | · · · | | • | | | | |
| Public general by bed size | 15.74 | 17.20 | 18.18 | 19.92 | 22.06 | 25. 22 | 28.83 | 32. 31 | 0.91 | 1.04 | 1.21 | 1.43 | 1.72 | 1.99 |
| 1- 9 beds | 12, 34 | 13.53 | 14.34 | 15.06 | 15.16 | 17.33 | 19.73 | 22.56 | 0.41 | 0.38 | 0.45 | 0.49 | 0.42 | 0.71 |
| 10 - 24 " | 10.83 | 11.64 | 12.03 | 13, 11 | 14.07 | 15.69 | 17.80 | 20.46 | 0.32 | 0.36 | 0.37 | 0.44 | 0.51 | 0.62 |
| 25-49 " | 11.57 | 12.09 | 12.71 | 13.56 | 14.61 | 16.30 | 18.71 | 21.50 | 0.38 | 0.41 | 0.45 | 0.51 | 0.63 | 0.74 |
| 50- 99 " | 12.48 | 13.14 | 14.15 | 15.08 | 16.63 | 18.75 | 21.55 | 24.72 | 0.42 | 0.47 | 0.53 | 0.62 | 0. 77 | 0.93 |
| 100 - 199 '' | 14.35 | 15.78 | 16.51 | 18.35 | 20.19 | 23.10 | 25.97 | 28.71 | 0.71 | 0.82 | J.94 | 1.11 | 1. 27 | 1.46 |
| 200 - 299 '' | 15, 80 | 17.19 | 17.91 | 19.19 | 21.30 | 24.62 | 27.28 | 30.50 | 0.80 | 0.89 | 1.02 | 1. 25 | 1. 48 | 1.71 |
| 300 - 499 '' | 16.80 | 18, 19 | 18,84 | 20.92 | 23.63 | 26.57 | 30.49 | 33. 15 | 1.07 | 1. 19 | 1.40 | 1.60 | 1. 94 | 2. 18 |
| 500 - 999 ** | 18. 22 | 19,75 | 21.18 | 23.48 | 26.02 | 30.42 | 35.33 | 38.86 | 1. 20 | 1.42 | 1.65 | 2.00 | 2.40 | 2.68 |
| 1,000 + " | 19.68 | 22.03 | 23, 30 | 25, 23 | 27.26 | 30.87 | 34.96 | 40. 32 | 1.42 | 1.55 | 1.85 | 2.14 | 2. 59 | 3. 10 |
| All hospitals | | | | | | | | | | 1 | | | | |
| Canada | 14, 94 | 16. 22 | 17.14 | 18.82 | 20. 77 | 23. 67 | 26. 94 | 30.16 | 0.84 | 0,95 | 1. 10 | 131 | 1. 56 | 1.81 |
| Newfoundland | 10.93 | 11.09 | 11, 76 | 13.96 | 15.03 | 17.01 | 21.06 | 25.89 | 0.66 | 0.78 | 0.88 | 1.03 | 1.48 | 2.10 |
| Prince Edward Island | 10.31 | 10.26 | 11.13 | 12.76 | 14.01 | 15.81 | 17.98 | 19.04 | 0.36 | 0.39 | 0.37 | 0.42 | 0.48 | 0.50 |
| Nova Scotia | 14.12 | 14.92 | 15.53 | 16.94 | 18.11 | 19.62 | 23, 45 | 26.96 | 0.60 | 0.72 | 0.88 | 0.99 | 1.30 | 1.59 |
| New Brunswick | 13.63 | 15.05 | 15.85 | 16.62 | 17.44 | 18.79 | 22, 11 | 24.61 | 0.21 | 0.23 | 0.28 | 0.31 | 0.40 | 0.46 |
| Quebec | 14.39 | 16.27 | 18.11 | 21.24 | 24.73 | 30.18 | 34.08 | 35.17 | 1. 14 | 1.36 | 1.60 | 1.97 | 2. 28 | 2.34 |
| Ontario | 16.19 | 17.61 | 18.23 | 19.47 | 21.05 | 23.41 | 26.57 | 31.07 | 0.82 | 0.91 | 1.02 | 1. 21 | 1.51 | 1.83 |
| Manitoba | 14.75 | 14.98 | 15.68 | 16.76 | 18.34 | 20.43 | 23.04 | 26.42 | 0.75 | 0.81 | 0.93 | 1.06 | 1.20 | 1.54 |
| Saskatchewan | 14.07 | 15.19 | 15.05 | 16.48 | 17.81 | 19.64 | 21.70 | 24.76 | 0.86 | 0.95 | 1.05 | 1.17 | 1. 31 | 1.55 |
| Alberta | 12.89 | 13, 40 | 14.41 | 15.11 | 16.25 | 18.19 | 21, 42 | 23.69 | 0.53 | 0.56 | 0.63 | 0.81 | 0.97 | 1. 13 |
| British Columbia | 15.96 | 17.03 | 17.42 | 18.45 | 19.75 | 21.15 | 24.09 | 28.52 | 0.72 | 0.79 | 0.93 | 1.03 | 1.28 | 1.69 |
| Yukon | 16.22 | h | ſ 25. 28 | 27.97 | 31.20 | 30.91 | 43.95 | 50.64 | 0.78 | _ | 0,17 | _ | | _ |
| Northwest Territories | 16.74 | }15.74 | 12, 37 | 13, 97 | 15.05 | 15.92 | 18.21 | 20.83 | 0.33 | 0.37 | 0.50 | 0.43 | 0. 47 | 0.53 |

¹ Adults and children. ² Only public hospitals are required to submit financial data to the Dominion Bureau of Statistics. ³ Excludes pathologist remuneration.

| | | | tory direct unit done | cost per in hospita | 1 | Laboratory salary cost per laboratory unit done in hospital | | | | | |
|--|--|--|--|--|---|--|--|--|--|--|--|
| Province | 1964 | 1965 | 1966 | 1967 | 1968 | 1964 | 1965 | 1966 | 1967 | 1968 | |
| Canada | | | | | | | | | | | |
| Public general by bed size 1 - 9 beds 10 - 24 25 - 49 50 - 99 100 - 199 200 - 299 300 - 499 500 - 999 1,000 + | $\begin{array}{c} 0.42\\ 0.23\\ 0.47\\ 0.48\\ 0.45\\ 0.44\\ 0.46\\ 0.42\\ 0.43\\ 0.35\\ \end{array}$ | $\begin{array}{c} 0.45\\ 0.27\\ 0.53\\ 0.49\\ 0.47\\ 0.46\\ 0.49\\ 0.44\\ 0.47\\ 0.41\\ \end{array}$ | $\begin{array}{c} 0.46\\ 0.30\\ 0.50\\ 0.54\\ 0.50\\ 0.48\\ 0.50\\ 0.45\\ 0.45\\ 0.47\\ 0.40\end{array}$ | $\begin{array}{c} 0.49\\ 0.38\\ 0.57\\ 0.56\\ 0.55\\ 0.49\\ 0.51\\ 0.49\\ 0.50\\ 0.42\\ \end{array}$ | $\begin{array}{c} 0.50\\ 0.45\\ 0.62\\ 0.55\\ 0.50\\ 0.51\\ 0.50\\ 0.49\\ 0.47\\ \end{array}$ | 0.25 0.12 0.28 0.23 0.23 0.24 0.25 0.26 0.24 | 0.26 0.14 0.27 0.25 0.24 0.25 0.25 0.26 0.27 0.26 | 0.26 0.17 0.26 0.24 0.26 0.27 0.26 0.28 0.25 | 0.28 0.22 0.28 0.27 0.27 0.27 0.29 0.29 0.29 0.29 | 0.28 0.26 0.31 0.29 0.28 0.27 0.28 0.29 0.28 0.29 0.28 0.30 | |
| All hospitals | | | | | | | | | | | |
| Canada | 0.43 | 0.46 | 0.46 | 0.49 | 0.50 | 0.25 | 0.26 | 0.27 | 0.28 | 0.29 | |
| Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories | $\begin{array}{c} 0.40\\ 0.44\\ 0.87\\ 1.59\\ 0.42\\ 0.43\\ 0.34\\ 0.34\\ 0.55\\ 0.34\end{array}$ | $\begin{array}{c} 0.41\\ 0.42\\ 1.14\\ 1.72\\ 0.46\\ 0.44\\ 0.35\\ 0.34\\ 0.36\\ 0.34\\ 0.34\end{array}$ | $\begin{array}{c} 0.42\\ 0.59\\ 0.97\\ 1.65\\ 0.47\\ 0.45\\ 0.35\\ \hline 0.37\\ 0.37\\ 0.45\\ 0.53\\ \end{array}$ | $\begin{array}{c} 0.51\\ 0.64\\ 1.15\\ 1.76\\ 0.49\\ 0.38\\ -\\ 0.35\\ 0.33\\ 0.35\\ \end{array}$ | 0.52 0.62 1.19 1.62 0.48 0.50 0.44 0.35 0.47 0.59 0.36 | $\begin{array}{c} 0.22\\ 0.13\\ 0.30\\ 0.24\\ 0.27\\ 0.25\\ 0.21\\ \hline 0.19\\ 0.20\\ \hline 0.27\\ \end{array}$ | 0.23 0.11 0.33 0.26 0.29 0.25 0.22 0.20 0.20 0.22 0.22 | 0.22 0.16 0.34 0.27 0.31 0.26 0.22 0.22 0.21 0.27 | 0.28 0.17 0.40 0.32 0.32 0.28 0.23 0.23 0.21 0.23 0.27 | 0.29 0.16 0.43 0.29 0.29 0.28 0.20 0.20 0.20 0.29 0.20 0.20 0.27 | |

TABLE 14. Selected Laboratory Cost Ratios, Public General and Allied Special Hospitals,¹ by Province, 1964-68

¹ Only public hospitals are required to submit financial data to the Dominion Bureau of Statistics.

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| | · · | | | | | | | | |
|--|---|------------------------------------|--|--|--|--|--|--|--|
| TABLE 15. Selected Data for Qualified | Combined Laboratory and Radiological | Technicians, Reporting General and | | | | | | | |
| Allied Special Hospitals, by Province, 1961-68 | | | | | | | | | |

| | Combined laboratory and radiological technicians employed full and part-time | | | | | | | | | | | | | | | | |
|--|--|----------------------------------|--|---------------|---|--|---|---------------|--|--|---|---------------|--|---|--|---|--|
| Province | 1961 | | 19 | 1962 | | 1963 | | 1964 | | 1965 | | 1966 | | 1967 | | 1968 | |
| | Full- time | Part- time | | Part- time | Full- time | Part- time | Full- time | Part- time | Full- time | Part- time | Full- time | Part- time | Full- time | Part- time | Full- time | Part- time | |
| Canada Public general by bed size | 106 2 38 45 14 7 - - | 14 1 4 - - - 5 | 124 2 40 45 24 5 8 — — | | 240 5 65 23 9 15 61 | 20 9 4 1 5 - | 189 4 69 73 25 18 - - - - | | 191 3 75 67 24 21 - 1 - | 21 13 4 1 2 | 186 3 75 74 26 8 | | 203 2 78 67 24 4 - - 28 | 43 2 9 18 14 | 210 1 69 25 5 1 35 - 5 | 29 13 14 1 | |
| All hospitals Canada Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories | 1117 1 2 5 12 4 8 43 34 8 - - | 14 | 129 1 9 3 - 6 5 3 4 3 3 5 3 6 - - | 11 | 258 1 5 7 - 97 41 160 66 6 - 1 | 21 - - 7 - 2 5 3 3 - - | 195 1 4 5 18 7 12 69 71 7 7 1 2 | | 197 24 5 17 9 89 66 4 1 | 21 - 1 - 1 - 4 7 6 2 - - - - - - - - - - - - - | 191 22 5 3 - 5 6 8 65 75 2 - - | 19 | 206 13 5 5 - 29 6 7 72 64 5 - - | 44 - 1 - 14 - 1 9 17 2 - - | 213 18 6 - 42 5 9 62 59 6 - - - | 31 1 - 1 - 3 11 13 2 | |

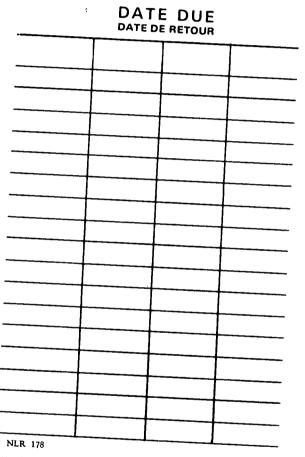
| | Separations of combined laboratory and radiological technicians employed full-time | | | | | | | | | | |
|---|--|--|---|---|---|---|---|--|--|--|--|
| Province | 1961² | 1962² | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | | | |
| Canada Public general by bed size 1-9 beds 10-24 ** 25-49 ** 50-99 ** 200-299 ** 300-499 ** 500-999 ** 1,000 + | 112 1 43 9 - 22 - - | 104 3 21 11 2 - 2 19 - 15 | 82 28 32 15 - 3 - - | 73 1 26 23 14 6 3 | 86 2 29 30 10 3 - 12 - - | 71 33 29 9 - - - - | 76 _24 30 8 1 9 4 | 65 26 30 7 2 — | | | |
| All hospitals | | 107 | | ** | | | | | | | |
| Canada Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon Northwest Territories | 114 28 - - 6 4 2 42 24 2 4 2 4 2 4 2 4 2 4 2 4 2 4 | 105 21 3 1 16 - 4 34 24 2 2 - | 84 - 2 1 - 3 3 27 38 6 - 1 | 73 | 86 5 2 5 2 2 33 32 4 1 | 72 11 - - 2 1 23 31 31 3 - | 77 1 14 3 1 18 31 2 | 66 4 - 1 - 2 28 28 28 28 2 2 - | | | |
| | Paid hours of combined laboratory and radiological technicians ¹ | | | | | | | | | | |
| | 1961 | 1962² | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | | | |
| Canada Public general by bed size 1 - 9 beds 10 - 24 "" 25 - 49 " 50 - 99 " 100 - 199 " 200 - 299 " 300 - 499 " 500 - 999 " 1,000 + " | ··· ··· ··· ··· | 537, 311 14, 654 191, 017 170, 866 66, 087 13, 957 15, 884 34, 772 30, 074 | 517, 594 11, 003 140, 110 134, 480 49, 332 22, 296 29, 259 131, 114 — | 398, 389 7, 086 147, 749 157, 614 51, 604 34, 336 – – – | 395, 340 8, 856 149, 865 139, 461 49, 855 45, 457 - 1, 846 - - | 371, 726 7, 010 151, 075 149, 787 51, 801 12, 053 – – – – | 430, 793 6, 032 147, 702 157, 810 43, 839 9, 060 - - - 66, 350 | 422, 157 2, 208 141, 093 157, 873 49, 639 9, 998 2, 170 53, 762 5, 414 | | | |
| All hospitals | | F#1 400 | 550 700 | 411 500 | 405 760 | 200.075 | 490 157 | 400.000 | | | |
| Canada | ··· | 551, 409 36, 692 24, 828 14, 535 53, 449 25, 568 22, 474 191, 831 146, 125 35, 247 | 558, 789 2, 080 10, 754 14, 178 - 207, 212 9, 926 24, 423 130, 905 139, 223 16, 714 | 411, 598 3, 224 8, 468 10, 432 35, 941 17, 089 26, 749 137, 495 152, 787 16, 983 | 406, 769 15, 309 9, 630 10, 648 | 383, 375 10, 830 10, 576 6, 872 10, 889 14, 365 15, 495 137, 679 168, 286 8, 383 | 438, 157 9, 404 11, 176 8, 639 | 430, 936 7, 920 12, 360 14, 528 64, 899 10, 157 22, 347 145, 997 137, 241 15, 487 | | | |
| Northwest Territories | | 660 | 3, 374 | 2, 430 | 2, 152 | - | _ | - | | | |

TABLE 15. Selected Data for Qualified Combined Laboratory and Radiological Technicians, Reporting General and Allied Special Hospitals, by Province, 1961-68 - Concluded

¹ Employed full-time and part-time.
 ² Data for the years 1961 and 1962 include unqualified as well as qualified combined laboratory and radiological technicians.

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- 84-518 Life Expectancy Trends, 1930-1932 to 1960-1962, O., E. 84-527 Complete Life Tables by Sex, Canada and provinces, 1965-1967, O., Bil.

Cancer Mortality:

- 84-520 General Cancer Mortality, 1950-1963, O., Bil. 84-521 Cancer Mortality by Site, 1950-1963, O., Bil.

Accident Mortality:

84-522 Accident Mortality, 1950-1964, O., Bil.

Infant Mortality:

84-524 Infant Mortality, 1950-1964, O., Bil.

Nuntiality:

84-523 Nuptiality, 1950-1964, O., Bil.

HOSPITALS AND HEALTH MANPOWER

- 83-001 Hospital Indicators, Q., Bil. 83-201 List of Canadian Hospitals and Related Institutions and Facilities, A., Bil. 83 - 201 List of Canadian Hospitals and Related Institutions and Fac
 83 - 210 Hospital Statistics, Vol. I, Hospital Beds, A., Bil.
 83 - 211 Hospital Statistics, Vol. II, Hospital Services, A., Bil.
 83 - 212 Hospital Statistics, Vol. IV, Balance Sheets, A., Bil.
 83 - 214 Hospital Statistics, Vol. IV, Balance Sheets, A., Bil.
 83 - 215 Hospital Statistics, Vol. V, Hospital Revenues, A., Bil.
 83 - 216 Hospital Statistics, Vol. VI, Hospital Expenditures, A., Bil.
 83 - 216 Hospital Statistics, Vol. VI, Hospital Indicators, A., Bil.
 83 - 217 Hospital Statistics (Preliminary Report), A., Bil.
 83 - 217 Hospital Statistics (Vol. W) Hospital Indicators, A., Bil.
 83 - 217 Hospital Statistics (Vol. WI, Hospital Indicators, A., Bil.
 83 - 217 Hospital Statistics (Vol. WI, Hospital Indicators, A., Bil.
 83 - 217 Hospital Statistics (Vol. WI, Hospital Indicators, A., Bil.
 83 - 217 Hospital Statistics (Vol. WI, Hospital Indicators, A., Bil.
 83 - 217 Hospital Statistics (Vol. WI, Hospital Indicators, A., Bil.

33-217 Hospital Statistics (Preliminary Report), A., Bil.
33-205 Mental Health Statistics, Vol. III, Institutional Facilities, Services and Finances, A., Bil.
33-205 Tuberculosis Statistics, Vol. II, Institutional Facilities, Services and Finances, A., Bil.
33-218 Annual Salaries of Hospital Nursing Personnel, A., Bil.
33-219 Annual Salaries of Public Health Nurses, A., Bil.
33-507 Health Manpower in Hospitals – General, 1961-68, O., E.
33-508 Health Manpower in Hospitals – Radiological Technicians, 1961-68, O., E.
33-509 Health Manpower in Hospitals – Laboratory Technologists, 1961-68, O., E.
33-510 Health Manpower in Hospitals – Digitals – Digitals, 1961-68, O., E.
33-511 Health Manpower in Hospitals – Digitals, 1961-68, O., E.
3511 Health Manpower in Hospitals – Physio-Occupational Therapists, 1961-68, O., E.
3513 Health Manpower in Hospitals – Physio-Berger, 1961-68, O., E.
3514 Health Manpower in Hospitals – Pharmacists, 1961-68, O., E.
3515 Health Manpower in Hospitals – Pharmacists, 1961-68, O., E.
3515 Health Manpower in Hospitals – Social Workers, 1961-68, O., E.
3515 Health Manpower in Hospitals – Social Workers, 1961-68, O., E.
3516 Health Manpower in Hospitals – Radiologists and Pathologists, 1961-68, O., E.
3517 Health Manpower in Hospitals – Radiologists and Pathologists, 0., E.
3518 Health Manpower in Hospitals – Radiologists and Pathologists, 0., E.

- 83-518 Health Manpower in Hospitals Nursing Assistants, 1961-68, O., E.

MENTAL HEALTH STATISTICS

- 83-204 Mental Health Statistics, Vol. I, Institutional Admissions and Separations, A., Bil. 83-208 Mental Health Statistics, Vol. II, Patients on Books of Institutions, A., Bil. 83-504 Rates and Probabilities of Separation from Mental Institutions, 1956-58, E.
- 83-505 Trends in Hospital Care and Patient Characteristics, 1955-1963, E.
- 83-506 Expectation of Admission to a Canadian Psychiatric Institution, O., Bil.
 - Mental Health Statistics, Patient Movement, Preliminary, A., Bil. (Free)

PUBLIC HEALTH STATISTICS

- 82-201 Notifiable Diseases, A., Bil. 83-206 Tuberculosis Statistics, Vol. I, Tuberculosis Morbidity and Mortality, A., Bil. 82-522 Infectious Hepatitis, 1961, E.
- 82-206 Hospital Morbidity, A., Bil.

HEALTH AND WELFARE TECHNICAL REPORTS

- Canadian Abridged Life Tables, 1961-1963, E. (Free)
 Provincial Abridged Life Tables, 1961-1963, E. (Free)
 Canadian Joint Life Tables, 1960-1962, E. (Free)

M. - Monthly Q. - Quarterly E. - English

A. - Annual

O. - Occasional B. - Bilingual

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